

## **On the concentrations of magnetically ordered clusters and paramagnetic centers per magnetic cluster in Ag/AgI-As<sub>2</sub>S<sub>3</sub> glasses**

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### **Abstract**

In the present work the magnetic properties of Ag/AgI-As<sub>2</sub>S<sub>3</sub> glasses are studied using magnetic susceptibility (MS) measurement by the Faraday method at the temperatures of 293 and 77 K. On the basis of the MS experimental data and the model based on the Langevin function, the concentrations of magnetically ordered clusters and paramagnetic centers per magnetic cluster for the investigated glasses are evaluated and the results obtained are discussed.

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### **Keywords**

Ag/AgI-As<sub>2</sub>S<sub>3</sub>, Chalcogenide glasses, Magnetic properties, Magnetic susceptibility